



1 LIFE SAFETY PLAN  
A-001 SCALE: 1:100

CODE ANALYSIS:

- REFERENCES:  
2006 INTERNATIONAL BUILDING CODE (2006 IBC)  
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:  
GROUP R-2 (NEW HOTELS AND DORMITORIES NFPA 101 6.1.8 AND CHAPTER 28)
- TYPE OF CONSTRUCTION (IBC): TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:  
GROUP R-2  
ALLOWABLE AREA: 1486 SM  
ALLOWABLE HEIGHT: 4 STORIES (16 M)  
GROUP R-2  
PROPOSED AREA: 569 SM  
PROPOSED HEIGHT: 1 STORY (<16 M)
- IBC TABLE 601 & 602: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS FOR TYPE II-B  

BUILDING ELEMENT	RATING (HOUR)	REFERENCE
STRUCTURAL FRAME (COLUMNS, GIRDERS & TRUSSES)	0	TABLE 601
BEARING WALLS EXTERIOR	0	TABLE 601
INTERIOR	0	TABLE 601
NONBEARING WALLS & PARTITIONS INTERIOR	0	TABLE 601
FLOOR CONSTRUCTION	0	TABLE 601
ROOF CONSTRUCTION	0	TABLE 601
EXTERIOR WALL	0	TABLE 602
- IBC TABLE 803.5 - INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR R-2 OCCUPANCY/NONSPRINKLERED  

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
R-2	B	B	C
- NFPA 101 TABLE 7.3.1.2 - OCCUPANT LOAD  
HOTELS AND DORMITORIES = 18.6 SM/PERSON  
CALCULATED = 31 OCCUPANTS  
ACTUAL = 31 OCCUPANTS
- NFPA 101 TABLE 7.3.3.1 - EGRESS CAPACITY  
HOTELS AND DORMITORIES = 5 MM PER OCCUPANT  
MINIMUM REQUIRED: 155 MM (31 OCCUPANTS x 5 MM PER OCCUPANT)  
PROPOSED EGRESS CAPACITY: 3600 MM: (4) 900 MM DOORS
- NFPA 101 PARAGRAPH 28.2.6 - EXIT ACCESS TRAVEL DISTANCE  
MAXIMUM ALLOWED WITHIN ROOM OR SUITE TO CORRIDOR: 23 METERS  
MAXIMUM ALLOWED CORRIDOR DOOR OF ANY ROOM OR SUITE TO NEAREST EXIT: 30 METERS  
PROPOSED WITHIN ROOM OR SUITE TO CORRIDOR: 4 METERS  
PROPOSED CORRIDOR DOOR OF ANY ROOM OR SUITE TO NEAREST EXIT: 21 METERS
- NFPA 101 PARAGRAPH 28.3.6.1.2 - CORRIDOR FIRE-RESISTANCE RATING (HOUR)  
REQUIRED: WALLS NOT LESS THAN ONE HOUR FIRE RESISTANCE RATING  
PROPOSED: 1 HOUR RATING
- NFPA 101 PARAGRAPH 28.3.6.2 & TABLE 8.3.4.2 - DOORS INTO EXIT ACCESS CORRIDORS  
REQUIRED MINIMUM: 20 MINUTE FIRE PROTECTION RATING  
PROPOSED: 20 MINUTE DOORS
- NFPA 101 PARAGRAPH 28.2.3.3 - CORRIDOR WIDTH  
REQUIRED: SUFFICIENT FOR OCCUPANT LOAD, BUT NOT LESS THAN 1120 MM  
CALCULATED WIDTH REQUIRED PER OCCUPANT LOAD: 155 MM (31 OCCUPANTS X 5 MM)  
PROVIDED: 1700 MM
- NFPA 101 PARAGRAPH 28.2.5.3 - COMMON PATH OF TRAVEL  
MAXIMUM ALLOWED: 10.7 METERS  
PROVIDED: 0 M
- NFPA 101 PARAGRAPH 28.2.5.5 - DEAD END CORRIDORS  
PERMITTED: 10.7 METERS  
PROPOSED: NO DEAD END CORRIDORS
- NFPA 101 PARAGRAPH 28.2.4.1 AND 7.4.1.1 - MINIMUM NUMBER OF EXITS  
REQUIRED: 2 MINIMUM  
PROPOSED: 3 EXITS
- NFPA 101 PARAGRAPH 28.2.1.2 & 24.2 - SECONDARY MEANS OF ESCAPE  
ONE OF THE FOLLOWING REQUIRED:  
1) DOOR, SIMILAR TO PRIMARY, BUT REMOTE FROM PRIMARY  
2) OPERABLE WINDOW, 0.53 SM, NOT LESS THAN 510 MM WIDE, 610 MM HIGH, NOT MORE THAN 1120 MM AFF, WITHIN 6100 MM OF GRADE  
PROVIDED: OPERABLE WINDOWS, 0.93 SM EACH PER SLEEPING ROOM
- NFPA 101 PARAGRAPH 24.2.2.4 - TWO PRIMARY MEANS OF ESCAPE  
AREA WITH DWELLING UNIT EXCEEDS 185 SM PER STORY  
ALLOWED AREA PER STORY WITHIN DWELLING UNIT: 185 SM  
PROVIDED AREA WITHIN DWELLING UNIT: 14 SM  
REQUIRED PRIMARY EXITS: 1  
PROVIDED PRIMARY EXITS: 1
- NFPA 101 PARAGRAPH 28.3.7.1 - SUBDIVISION OF BUILDING SPACES - NONSPRINKLERED  
REQUIRED: EACH GUEST ROOM OR DORMITORY ROOM SHALL BE SEPARATED FROM OTHER GUEST OR DORMITORY ROOMS BY FIRE BARRIERS HAVING FIRE RESISTANCE RATED OF NOT LESS THAN 1 HOUR  
PROVIDED: 1 HOUR SEPARATION
- HAZARDOUS AREA PROTECTION TABLE 28.3.2.2.2  
STORAGE ROOMS: 1 HOUR SEPARATION REQUIRED
- NFPA 101 A.3.3.5.3 DORMITORY: ROOMS WITHIN DORMITORIES INTENDED FOR THE USE OF INDIVIDUALS FOR COMBINED LIVING AND SLEEPING PURPOSES ARE GUEST ROOMS OR GUEST SUITES. EXAMPLES OF DORMITORIES ARE COLLEGE DORMITORIES, FRATERNITY AND SORORITY HOUSES AND MILITARY BARRACKS.
- NFPA 101 28.3.5.2 EXTINGUISHMENT REQUIREMENTS: AUTOMATIC SPRINKLER PROTECTION REQUIRED UNLESS SLEEPING ROOMS HAVE DOORS DIRECTLY TO OUTSIDE. DUE TO AUSTRERE DESIGN CRITERIA, THE GOVERNMENT HAS A FIRE PROTECTION WAIVER FOR THIS REQUIREMENT.

LINEAR DIMENSIONS SHOWN  
ARE IN MILLIMETERS (MM),  
UNLESS OTHERWISE NOTED

0 2000 4000  
SCALE: 1:100

APPROVED:  
**B1**



Rev	Date	Description	Mark
0	2/23/10	Design	

Designed by KFC	Checked by EBB	Drawing code NLU	Submitted by LHM	Rev 0	Date 2/23/10
U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338 Michael Baker Corp. A unit of Michael Baker Corporation 100 Airside Drive Fort Belvoir, WA 98007 www.mbakercorp.com				File name: ANA000000000001 Plot date: 03/01/10 Plot scale: X01	

STANDARD DESIGN VARIOUS PROJECTS AFGHANISTAN SENIOR BOQ BARRACKS LIFE SAFETY PLAN
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Sheet  
reference  
number:  
**A-001**